

What is claimed is:

1. A light guide plate provided with an incidence side end face, a distal side face located oppositely to the incidence side end face, an emission face outputting light inputted from said incidence side end face and a back face located oppositely to the emission face, allowing the light inputted from said incidence side end face to be outputted from said emission face during traveling;

at least a part of said emission face providing an emission promotion surface which has a plurality of first slopes and a plurality of second slopes;

said first slopes being arranged repeatedly at intervals along a direction from said incidence side end face towards said distal side face;

said second slopes being arranged as to fill up the intervals respectively;

each of said first slopes being inclined as to have a normal leaning to the distal side face;

each of said second slopes being inclined as to have a normal leaning to the incidence side end face and to be steeper than adjacent first slopes on both sides thereof.

2. A light guide plate in accordance with claim 1, wherein inclination angles of said first slopes get smaller gradually with an increasing distance from said incidence side end face.

3. A light guide plate in accordance with claim 1 or 2, wherein inclination angles of said second slopes are defined so that light outputted toward a main direction of emission from said emission face avoids from being incident to said second slopes.

4. A light guide plate provided with an incidence side end face, a distal side face located oppositely to the incidence side end face, an emission face outputting light inputted from said incidence side end face and a back face located oppositely to the emission face, allowing the light inputted from said incidence side end face to be outputted from said emission face during traveling;

said back face providing a light gathering function surface which inner-reflects light

as to gather the light around a normal direction of said emission face;

said emission face having emission promotion areas arranged repeatedly along a direction from said incidence side end face towards said distal side face;

said emission promotion areas having first and second slopes, respectively;

said first slopes being arranged repeatedly at intervals along a direction from said incidence side end face towards said distal side face and further being configured as to give a gently decreasing thickness to the light guide plate with an increasing distance from said incidence side end face;

said second slopes being arranged as to fill up the intervals respectively and further being configured as to give a sharply increasing thickness to the light guide plate with an increasing distance from said incidence side end face.

5. A light guide plate in accordance with claim 4, wherein inclination angles of said second slopes are defined so that light outputted toward a main direction of emission from said emission face avoids from being incident to said second slopes.

6. A light guide plate in accordance with claim 4 or 5, wherein inclination angles of said first slopes get smaller with an increasing distance from said incidence side end face.

7. A light guide plate in accordance with claim 4, wherein said emission promotion areas cover over said emission face.

8. A light guide plate in accordance with claim 4, wherein said emission promotion areas are formed within a predetermined range extending from said incidence side end face.

9. A light guide plate in accordance with claim 4, wherein said emission promotion areas are formed within a predetermined range extending from said incidence side end face; and

prismatic grooves extending in a direction generally perpendicular said incidence side end face are formed repeatedly along said incidence side end face.

10. A light guide plate in accordance with claim 4, 5, 6, 7, 8 or 9, wherein said light gathering function surface has a light gathering function which decreases with a decreasing distance from said incidence side end face within a neighbour of said incidence side end face.

11. A surface light source device, comprising;
a light guide plate in accordance with claim 1, 2 or 3; and
a light source supplying light to the light guide plate through said incidence side end face.

12. A surface light source device, comprising;
a light guide plate in accordance with claim 4, 5, 6, 7, 8, 9 or 10; and
a light source supplying light to the light guide plate through said incidence side end face.

13. An image display, comprising;
a surface light source device in accordance with claim 11; and
an image displaying portion supplied with light from a surface light source device in accordance with claim 11.

14. An image display, comprising;
a surface light source device in accordance with claim 11; and
an image displaying portion supplied with light from a surface light source device in accordance with claim 12.